

PARTS & SERVICE NEWS

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SUBJECT: INTRODUCTION OF IMPROVED NEEDLE BEARING FOR COUNTER-SHAFT TYPE T/M ON WA

PURPOSE: To introduce improved needle bearings for counter-shaft type transmissions featuring enhanced reliability.

APPLICATION: Refer to page 3.

FAILURE CODE: 15EM36

DESCRIPTION:

1. Introduction

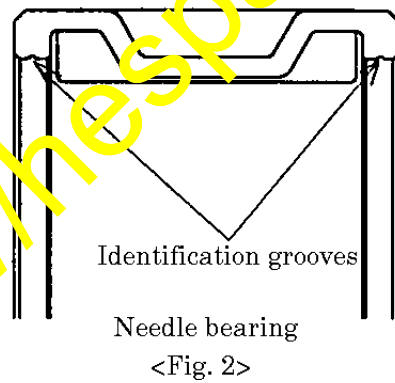
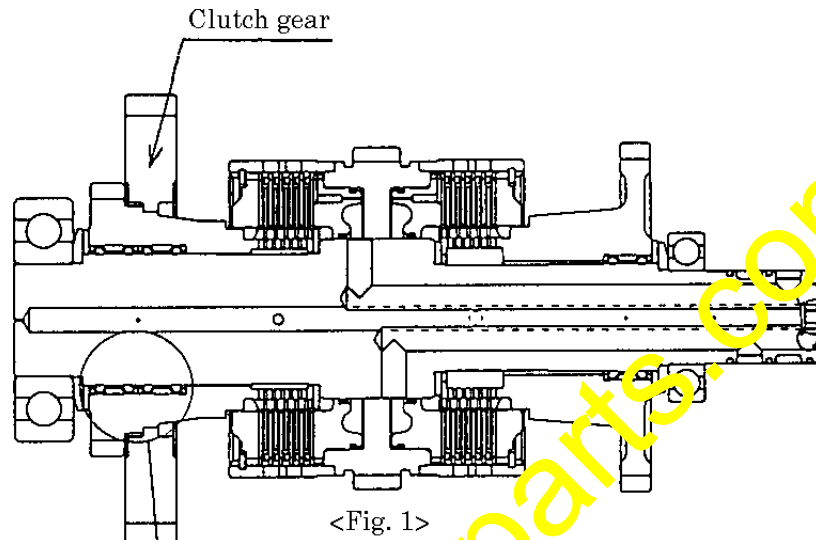
This Service News will introduce improved needle bearings for the counter-shaft type transmissions featuring enhanced reliability.

2. List of parts

Part No.	Part Name	Q'ty	Remarks
419-15-13151 (419-15-13150)	Bearing (Bearing)		The cage is provided with two identification grooves.
714-07-12271 (714-07-12270)	Bearing (Bearing)		
714-07-12281 (714-07-12280)	Bearing (Bearing)		

3. Contents of the modification

Crowning (slight chamfering around the edges of the roller) has been added to the roller of the needle bearing being used underneath the clutch gear. Thus, the local bearing pressure applied to the edge of the roller can be alleviated and reliability can be enhanced.



It is impossible to visually distinguish the difference in the degree of crowning. Identify the new and current needle bearing by the identification grooves (at 2 places on both sides) provided in the inner periphery of the cage of the new bearing. (Refer to <Fig. 2>.)

List of serial numbers of the machines applicable for installation of the new needle bearing for the counter-shaft type transmission featuring improved reliability

Machines

Part No. of the needle bearings	Machine models	Categorization	Quantity	Serial numbers of the applicable machines	
				Already shipped machines	Machines being shipped newly from the factory
419-15-13151 ↑ 419-15-13150	WA100-3 WA120-3	3-speed spec. machines	1	#50001 – #54268 #50001 – #50006 (T/MNo. – 52600)	#54269 – #50007 – (T/MNo. 52601 –)
	WA100-3	4-speed spec. machines	2	#60001 – #63401 (T/MNo. – 53883)	#63402 – (T/MNo. 53884 –)
	WA120-3 WA150-3 WA180-3	4-speed spec. machines	2	#50001 – #50006 #60001 – #63322 #50001 – #53132 (T/MNo. – 67913)	#50007 – #63323 – #53133 – (T/MNo. 67914 –)
	WA200-3 WA250-3		1	#60001 – #63407, #63409, #63411, #63413 – #63415 #50001 – #53174, #65001 – #65033 (T/MNo. – 77757)	#63408, #63410, #63412, #63413 – (T/MNo. 77758 –)
	WA300-3	WA300-3CS	1	#51001 – #51060 (T/MNo. – 84864)	#51061 – (T/MNo. 84864 –)
	WA300-3 WA320-3	Standard machines	4	#50001 – #53203 #50001 – #53237 (T/MNo. – 84864)	#53204 – #53138 – (T/MNo. 84866 –)
	WA350-3	Standard machines	4	#50001 – #53292, #53295 (T/MNo. – 88845)	#53293 – #53294, #53296 – (T/MNo. – 88846 –)
	WA350-3 WA380-3	Hyper machines	4	#50001 – #63056 #50001 – #53148 (T/MNo. – 88857)	#63057 – #53149 – (T/MNo. 88858 –)
	WR11-1		1	#29001 – #30416 (T/MNo. – 52630)	#30417 – (T/MNo. 52631 –)
	WR11-3		1	– (T/MNo. – 52630)	#53001 – (T/MNo. 52631 –)
	LW250-5		4	#50001 – #50348, #53001 – #53111, #55001 – #55012 (T/MNo. – 1476)	#50401 –, #53112 –, #55013 – (T/MNo. 1477 –)
	LW500-1		4	#10001 – #10125, #11001 – #11013 (T/MNo. – 1036)	#10026 –, #11014 – (T/MNo. 1037 –)
	714-07-12271 ↑ 714-07-12270	WA400-3 WA420-3	Standard machines	2	#50001 – #53102 #50001 – #53174 (T/MNo. – 101108)
WA400-3		Hyper machines	2	#60001 – #63010 (T/MNo. – 101108)	#63011 – (T/MNo. 101109 –)
WA450-3 WA470-3		Standard machines	2	#50001 – #53259, #53261, #53262 #50001 – #53129 (T/MNo. – 106991)	#53260, #53263 – #53130 – (T/MNo. 106992 –)
WA450-3		Hyper machines	2	#60001 – #63034 (T/MNo. – 106991)	#63035 – (T/MNo. 106992 –)
714-07-12281 ↑ 714-07-12280		WA400-3 WA420-3	Standard machines	7	#50001 – #53105 #50001 – #53195, #53198 (T/MNo. – 101150)
	WA400-3	Hyper machines	7	#60001 – #63010 (T/MNo. – 101150)	#63011 – (T/MNo. 101151 –)
	WA450-3 WA470-3	Standard machines	7	#50001 – #53272 #50001 – #53142 (T/MNo. – 107025)	#53273 – #53143 – (T/MNo. 107026 –)
	WA450-3	Hyper machines	7	#60001 – #63036 (T/MNo. – 107025)	#63037 – (T/MNo. 107026 –)